

# KOBYGARD™ SYSTEM

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## Surgical Technique Guide

Minimally Invasive  
Nerve Decompression  
(MIND)



*Rethinking Possibilities, Reshaping Lives*

# Minimally Invasive Morton's Neuroma Decompression

## Surgical Technique

### Indications for Intermetatarsal Nerve Decompression:

1. Chronic Neuroma pain unresponsive to conservative treatment.
2. Surgeon wishes to decompress the nerve rather than excising it.

### Patient Preparation:

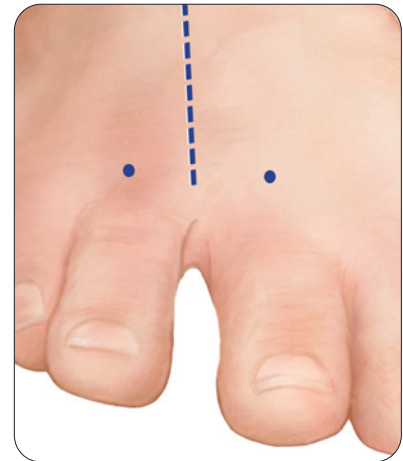
The patient is placed in the supine position and local anesthesia is achieved.

The patient is prepped and draped in the usual manner. Hemostasis is achieved according to the surgeon's preference.



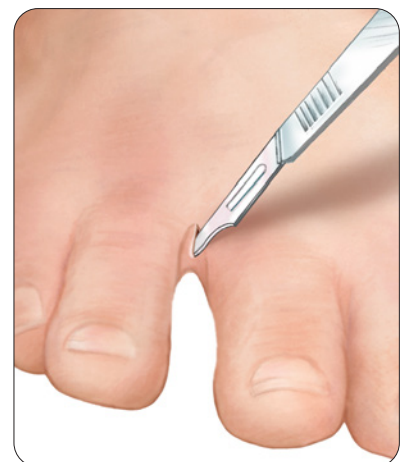
## STEP 1

In order to ensure proper alignment of the instrumentation, a line is made with a surgical marker and straight edge that is parallel to the adjacent metatarsals in the appropriate interspaces.



## STEP 2

Using a #15 blade, a 7mm vertical incision is made in the web space. This incision is made vertically to protect the neuro-vascular bundle to the toe.



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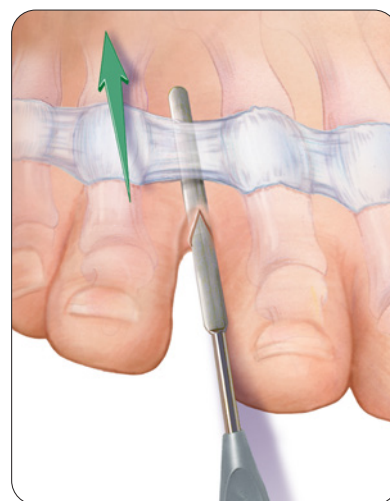
### STEP 3

A small curved Metzenbaum scissor is then used to palpate and create a small plane on the plantar aspect of the transverse metatarsal ligament (TML).



### STEP 4

The Tissue Locator is then used to extend the plane across the underside of the TML. Care is taken to insure that all instruments are introduced in a parallel manner to the adjacent metatarsals.

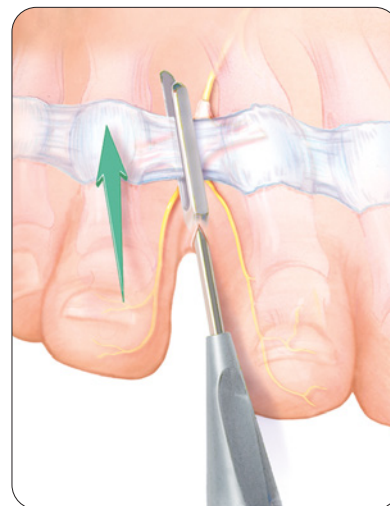


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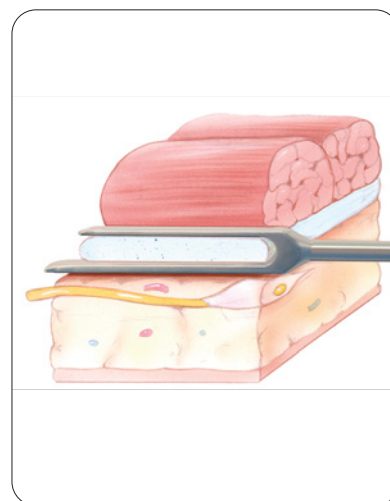
## Surgical Technique

### STEP 5

The Ligament Separator is then introduced in order to separate the TML from surrounding tissue and to create planes plantar and dorsal to the TML to assist in the proper placement of the KobyGard instrument.



The cross-section shows the Ligament Separator in place with the TML captured. The Separator has a 5mm gap between the upper and lower prongs. The lower prong extends approximately ½ inch further than the upper prong to allow for initial palpation of the underside of the ligament before introduction and capture of the TML.

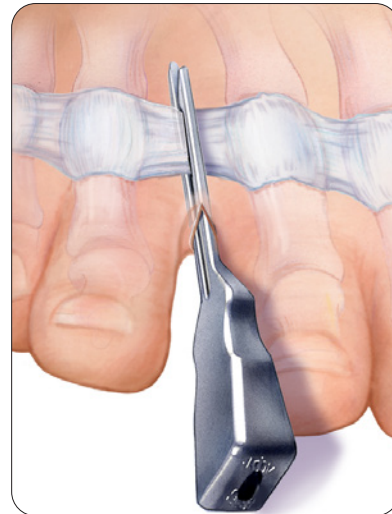


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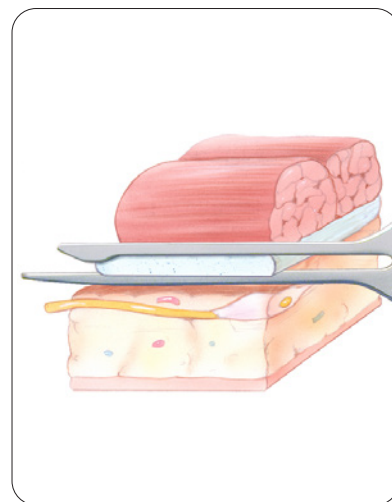
## Surgical Technique

### STEP 6

After removal of the Ligament Separator, the KobyGard instrument is introduced and positioned securely around the ligament using the same palpation technique used previously with the Tissue Locator and Separator. Care is taken to insert the KobyGard into the previously separated tissue planes dorsal and plantar to the ligament.



The cross-section shows the KobyGard instrument positioned around the TML. The KobyGard Flex Tip design allows for isolation of the TML regardless of its thickness and protects the nerve and surrounding soft tissue structures from damage during the procedure. The longer, lower prong of the KobyGard is plantar to the ligament and the short upper prong is dorsal. The KobyGard has a slotted channel extending through the handle and passing throughout the length of the instrument allowing the passage of the blade while incising only the enclosed TML.

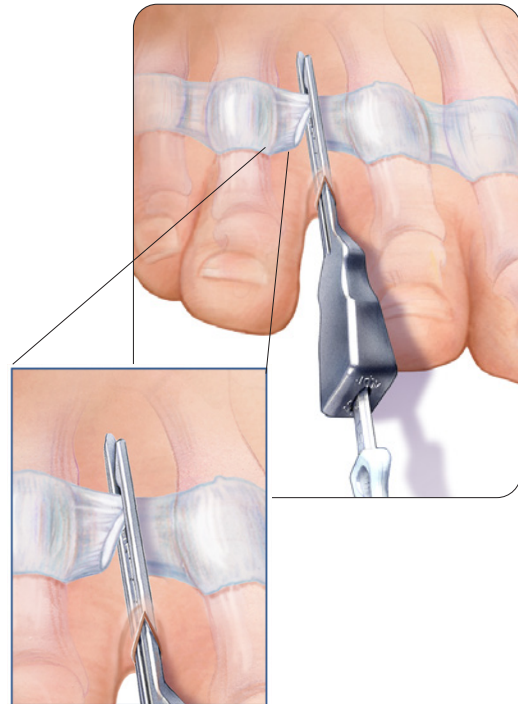


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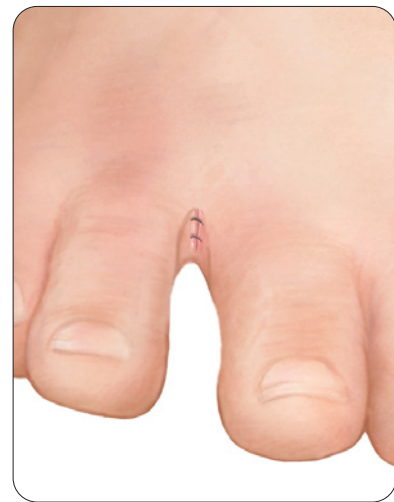
### STEP 7

Once the KobyGard instrument is properly positioned, the blade is introduced into the slotted channel until initial resistance of the distal edge of the TML is felt. The blade is advanced proximally within the KobyGard instrument incising the TML with a controlled cut. When resistance from the TML is no longer felt, the ligament has been completely incised.



### STEP 8

The KobyGard instrument and blade are then removed. The Tissue Locator can then be reintroduced to palpate between the metatarsal heads for confirmation of a successful release. The incision is closed with one or two interrupted sutures.



### SURGEON'S POST-OP TREATMENT PROTOCOL

1. The patient is placed in a post op shoe for ambulation.
2. Immediate ambulation is allowed as tolerable.
3. The surgical dressing is removed at 48 hours with return to comfortable shoe gear as tolerable.
4. The sutures are removed at one week and full activity is allowed as tolerable.

Refer to the provided Instructions for Use for the complete Indications, Contraindications, Warnings, and Instructions for Use including cleaning and sterilization details.

# KobyGard™ System Instruments



380-0000 KobyGard™ System



380-0006 Single-Use Blades, Sterile Packed, 6 pack



380-0012 Ligament Separator



380-0013 Fascia Separator



380-0011 Tissue Locator



380-0010 KobyGard™ System Single-Use Blade, Sterile



380-0014 KobyGard™ Flex Tip Instrument

# OsteoMed Products



ExtremiFix Headless Cannulated Screws



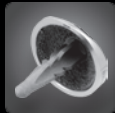
ExtremiFix Cannulated Screws



Large Cannulated Screws



ExtremiLock Foot Plating System



EnCompass



EnCompass Lessers



Hemi



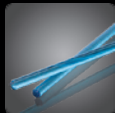
ReFlexion



InterPhlex



Talar-Fit



Inion



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